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E. HAROLD MUNN, JR. & ASSOCIATES, INC.

BROADCAST ENGINEERING CONSULTANTS

The firm of E. Harold Munn, Jr. & Associates, Inc., Broadcast Engineering Consultants, with offices at 100 Airport Drive, Coldwater, Michigan, has been retained for the purpose of preparing the technical data forming this report.

The report has been prepared by properly trained electronics specialists under the direction of the undersigned whose qualifications are a matter of record before the Federal Communications Commission.

I declare under penalty of perjury that the contents of this report are true and accurate to the best of my knowledge and belief.

E. HAROLD MUNN, JR. & ASSOCIATES, INC.

April 27, 1988

By E. Harold Munn, Jr.
E. Harold Munn, Jr., President

By Wayne S. Reese
Wayne S. Reese, Project Engineer

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DISCUSSION

This firm was retained to prepare this report in support of an application for a construction permit to increase the daytime and critical hours operating power of KMOA, Kensett, Arkansas. Data contained in this report is responsive to the requirements of the Rules and FCC Form 301, Section V-A.

1. KMOA operates with a power of 0.5 kW, daytime only, non-directional, on 1190 kHz. The proposed operation will be non-directional on 1190 kHz, daytime only, but with power increased to 10 KW excepting during critical hours when it will be reduced to 1.9 kW.

2. There will be no physical construction required. The present KMOA tower, ground system and site will be utilized. No new notification is required to the FAA and no local zoning or other requirements impede the implementation of this proposal. The studios will remain at their present location, in Searcy, and remote control will be continued from that site.

3. Extensive field strength measurements have been taken and form a part of this application report. Operating as proposed, the station will comply with all Rules of the FCC and will not be involved in prohibited overlap with other stations or presently pending proposals.

Field strength measurements have been utilized $\pm 10^{\circ}$ from the measured bearings, in accordance with good engineering practice. Where areas of differing conductivities were encountered, the "equivalent distance" method of computation was employed. Details of the conductivities employed, fields and contour locations are included in this report along with computer-generated allocations maps to the scale of FCC Map M-3.

4. Adequate land is controlled by the applicant so as to permit restriction of access in line with Commission recommendations concerning R. F. radiation exposure for humans.

DETAILS CONCERNING FIELD STRENGTH MEASUREMENTS

All field strength measurements were made by Mr. Harvey Fritts, using a Potomac Instruments Model FIM-41 field strength meter, Serial No. 1033. The instrument was last calibrated by Potomac Instruments, Silver Spring, MD, on April 9, 1981.

Radial mapping was prepared by this firm and supplied to Mr. Fritts who was supplied instructions as to the proper taking of field strength measurements. He previously had participated in directional antenna system field strength measurement programs under the supervision of this firm.

STATEMENT ON REDUCING HUMAN EXPOSURE

TO EXCESSIVE AM RADIATION

The Federal Communications Commission, as of January 1, 1986, has set forth guidelines for RF radiation protection as issued by the American National Standards Institute (ANSI). The following steps will be taken by the licensee of this proposed AM facility to insure proper protection from high RF energy levels to station personnel and the public in general.

It is proposed to install fencing around the base of the tower(s) at a distance to meet or exceed the radius shown in Table 1 of Appendix D of the Commission's OST Bulletin No. 65 for safe exposure to humans in the near field area in the vicinity of the AM transmission towers. All fences will have locks installed to prevent unlawful entry. In addition, appropriate warning signs will be mounted on the fences to alert unsuspecting people of the potential dangers of entering the fenced-in area(s) around the tower(s). The antenna coupling unit(s) will be located inside the fenced areas in small buildings or weatherproof enclosures with additional locks installed at the ingress to these units.

Protection for station personnel will be accomplished by posting of warning signs in areas penetrating the ANSI standards for excessive RF radiation if the studio/transmitter building is located adjacent to the transmitting antenna. If this is a proposal for a new AM facility, the applicant will endeavor to locate the studio/transmitter building outside the radius for excessive RF radiation. The engineering personnel will be advised to limit their work in the high RF level areas to specified periods of time appropriate for compliance with the ANSI guidelines. If the personnel cannot complete a specific task in the specified period of time, it is proposed to shut down operation of the station to permit completion of the assignment.

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KMOA - KENSETT, ARKANSAS (PROPOSED 10 KW OPERATION)

Call letters: KMOA

Coordinates: N 35 15 34 W 91 40 31

Frequency: 1190 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
		.1M	3.0	1.0M	12.0	2.0M	34.0	1.0M	50.0
.0	961.33	.1M 1.5M	3.0 86.2	1.0M 8.0E	12.0 495.6	2.0M 15.0E	34.0 500.0	1.0M	50.0
5.0	961.33	.1M 1.5M	3.0 86.2	1.0M 8.0E	12.0 500.0	2.0M	34.0	1.0M	50.0
10.0	961.33	.1M 1.5M	3.0 86.2	1.0M 8.0E	12.0 500.0	2.0M	34.0	1.0M	50.0
15.0	961.33	.1M 1.5M	3.0 86.2	1.0M 8.0E	12.0 347.0	2.0M 15.0E	34.0 500.0	1.0M	50.0
20.0	961.33	1.0M 2.0M	13.0 88.3	2.0M 8.0E	30.0 334.3	.5M 15.0E	45.0 500.0	3.0M	77.0
25.0	961.33	1.0M 2.0M	13.0 88.3	2.0M 8.0E	30.0 340.1	.5M 15.0E	45.0 500.0	3.0M	77.0
30.0	961.33	1.0M 2.0M	13.0 88.3	2.0M 8.0E	30.0 500.0	.5M	45.0	3.0M	77.0
35.0	961.33	1.0M 2.0M	13.0 88.3	2.0M 8.0E	30.0 500.0	.5M	45.0	3.0M	77.0
40.0	961.33	8.0E	500.0						
45.0	961.33	1.5M 1.0M	3.0 76.9	3.0M 8.0E	5.0 500.0	5.0M	40.0	4.0M	60.0
50.0	961.33	1.5M 1.0M	3.0 76.9	3.0M 8.0E	5.0 296.5	5.0M 4.0E	40.0 332.8	4.0M 8.0E	60.0 500.0
55.0	961.33	1.5M 1.0M	3.0 76.9	3.0M 8.0E	5.0 266.6	5.0M 4.0E	40.0 336.1	4.0M 8.0E	60.0 500.0
60.0	961.33	1.5M 1.0M 4.0E	3.0 76.9 500.0	3.0M 8.0E	5.0 247.4	5.0M 4.0E	40.0 338.8	4.0M 8.0E	60.0 482.1
65.0	961.33	1.5M 1.0M	3.0 76.9	3.0M 8.0E	5.0 233.5	5.0M 4.0E	40.0 500.0	4.0M	60.0
70.0	961.33	5.0M	50.0	8.0M	80.0	6.0M	90.0	3.0M	100.0

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

			2.0M	103.2	8.0E	224.2	4.0E	500.0		
75.0	961.33		5.0M	50.0	8.0M	80.0	6.0M	90.0	3.0M	100.0
			2.0M	103.2	8.0E	219.4	4.0E	500.0		
80.0	961.33		5.0M	50.0	8.0M	80.0	6.0M	90.0	3.0M	100.0
			2.0M	103.2	8.0E	218.0	4.0E	500.0		
85.0	961.33		5.0M	50.0	8.0M	80.0	6.0M	90.0	3.0M	100.0
			2.0M	103.2	8.0E	218.7	4.0E	500.0		
90.0	961.33		8.0M	21.5	4.0M	50.0	6.0M	70.0	5.0M	90.0
			2.0M	101.7	8.0E	224.5	4.0E	496.4	2.0E	500.0
95.0	961.33		8.0M	21.5	4.0M	50.0	6.0M	70.0	5.0M	90.0
			2.0M	101.7	8.0E	232.5	4.0E	465.1	2.0E	500.0
100.0	961.33		8.0M	21.5	4.0M	50.0	6.0M	70.0	5.0M	90.0
			2.0M	101.7	8.0E	243.0	4.0E	441.2	2.0E	500.0
105.0	961.33		8.0M	21.5	4.0M	50.0	6.0M	70.0	5.0M	90.0
			2.0M	101.7	8.0E	252.7	4.0E	430.0	2.0E	500.0
110.0	961.33		8.0E	260.9	4.0E	302.4	2.0E	368.3	4.0E	482.1
			2.0E	495.6	4.0E	500.0				
115.0	961.33		8.0E	267.4	2.0E	437.7	4.0E	500.0		
120.0	961.33		8.0E	270.0	2.0E	480.1	4.0E	500.0		
125.0	961.33		8.0E	273.7	2.0E	508.8				
130.0	961.33		8.0E	280.0	2.0E	500.0				
135.0	961.33		8.0E	289.9	2.0E	500.0				
140.0	961.33		8.0E	306.2	2.0E	500.0				
145.0	961.33		8.0E	334.0	2.0E	373.2	4.0E	445.6	2.0E	500.0
150.0	961.33		8.0E	356.9	4.0E	475.9	2.0E	500.0		
155.0	961.33		8.0E	353.3	4.0E	515.4				
160.0	961.33		8.0E	388.3	4.0E	500.0				
165.0	961.33		8.0E	446.3	4.0E	500.0				
170.0	961.33		8.0E	99.5	4.0E	129.9	8.0E	492.4	4.0E	500.0
175.0	961.33		8.0E	65.7	4.0E	162.4	8.0E	500.0		
180.0	961.33		8.0E	56.2	4.0E	200.5	8.0E	500.0		
185.0	961.33		8.0E	51.6	4.0E	254.7	8.0E	500.0		

FIGURE 1

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LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

190.0	961.33	8.0E	48.2	4.0E	439.8	8.0E	482.8	15.0E	500.0
195.0	961.33	8.0E	45.6	4.0E	410.0	15.0E	500.0		
200.0	961.33	8.0E	44.3	4.0E	339.6	15.0E	448.2	8.0E	500.0
205.0	961.33	8.0E	43.4	4.0E	292.8	15.0E	399.3	8.0E	500.0
210.0	961.33	8.0E	42.9	4.0E	279.1	15.0E	371.9	8.0E	500.0
215.0	961.33	8.0E	43.1	4.0E	301.4	15.0E	354.7	8.0E	465.8
		4.0E	500.0						
220.0	961.33	8.0E	43.9	4.0E	304.7	8.0E	489.2	4.0E	500.0
225.0	961.33	8.0E	45.0	4.0E	316.1	8.0E	518.0		
230.0	961.33	8.0E	46.5	4.0E	336.5	8.0E	500.0		
235.0	961.33	8.0E	48.5	4.0E	375.7	8.0E	465.4	30.0E	500.0
240.0	961.33	8.0E	51.4	4.0E	400.3	30.0E	500.0		
245.0	961.33	8.0E	55.8	4.0E	251.5	15.0E	295.3	4.0E	356.1
		30.0E	500.0						
250.0	961.33	8.0E	61.5	4.0E	221.1	15.0E	485.1	30.0E	500.0
255.0	961.33	8.0E	69.0	4.0E	195.6	15.0E	500.0		
260.0	961.33	8.0E	79.4	4.0E	177.8	15.0E	478.3	30.0E	500.0
265.0	961.33	8.0E	94.3	4.0E	164.9	15.0E	470.8	30.0E	500.0
270.0	961.33	1.5M	3.0	4.0M	9.0	3.0M	22.0	1.5M	40.0
		.1M	57.1	8.0E	117.1	4.0E	155.8	15.0E	486.4
		30.0E	500.0						
275.0	961.33	1.5M	3.0	4.0M	9.0	3.0M	22.0	1.5M	40.0
		.1M	57.1	8.0E	154.5	15.0E	234.7	8.0E	302.3
		15.0E	423.2	8.0E	466.2	15.0E	500.0		
280.0	961.33	1.5M	3.0	4.0M	9.0	3.0M	22.0	1.5M	40.0
		.1M	57.1	8.0E	325.5	15.0E	406.3	8.0E	492.3
		30.0E	500.0						
285.0	961.33	1.5M	3.0	4.0M	9.0	3.0M	22.0	1.5M	40.0
		.1M	57.1	8.0E	334.3	15.0E	408.7	8.0E	484.2
		30.0E	500.0						
290.0	961.33	10.0M	1.2	1.0M	2.5	2.0M	20.0	1.0M	40.0
		.1M	54.4	8.0E	338.2	15.0E	406.9	30.0E	500.0
295.0	961.33	10.0M	1.2	1.0M	2.5	2.0M	20.0	1.0M	40.0
		.1M	54.4	8.0E	336.0	15.0E	390.6	30.0E	500.0

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

300.0	961.33	10.0M .1M	1.2 54.4	1.0M 8.0E	2.5 326.1	2.0M 15.0E	20.0 382.8	1.0M 30.0E	40.0 500.0
305.0	961.33	10.0M .1M	1.2 54.4	1.0M 8.0E	2.5 328.5	2.0M 15.0E	20.0 407.6	1.0M 30.0E	40.0 500.0
310.0	961.33	8.0M .1M	1.2 43.5	1.0M 8.0E	2.5 334.5	2.0M 15.0E	30.0 442.2	1.0M 30.0E	38.0 500.0
315.0	961.33	8.0M .1M	1.2 43.5	1.0M 8.0E	2.5 324.4	2.0M 15.0E	30.0 478.3	1.0M 30.0E	38.0 500.0
320.0	961.33	8.0M .1M	1.2 43.5	1.0M 8.0E	2.5 324.5	2.0M 15.0E	30.0 500.0	1.0M	38.0
325.0	961.33	8.0M .1M	1.2 43.5	1.0M 8.0E	2.5 335.3	2.0M 15.0E	30.0 500.0	1.0M	38.0
330.0	961.33	8.0E	348.2	15.0E	500.0				
335.0	961.33	8.0E	357.9	15.0E	500.0				
340.0	961.33	8.0E	367.9	15.0E	500.0				
345.0	961.33	8.0E	381.5	15.0E	500.0				
350.0	961.33	8.0E	399.6	15.0E	500.0				
355.0	961.33	.1M 1.5M	3.0 86.2	1.0M 8.0E	12.0 430.6	2.0M 15.0E	34.0 500.0	1.0M	50.0

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KMOA - KENSETT, ARKANSAS (PROPOSED 10 KW OPERATION)

Call letters: KMOA Metric groundwave propagation curves

Coordinates: N 35 15 34 W 91 40 31

Frequency: 1190 kHz Number of contours: 5

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :				
		1000.000	5.000	2.000	.500	.025
.0	961.33	.47	17.70	27.11	41.79	208.62
5.0	961.33	.47	17.70	27.11	41.79	208.62
10.0	961.33	.47	17.70	27.11	41.79	208.62
15.0	961.33	.47	17.70	27.11	41.79	208.62
20.0	961.33	.58	15.68	27.11	37.79	220.27
25.0	961.33	.58	15.68	27.11	37.79	220.27
30.0	961.33	.58	15.68	27.11	37.79	220.27
35.0	961.33	.58	15.68	27.11	37.79	220.27
40.0	961.33	.89	37.86	56.53	102.21	288.80
45.0	961.33	.65	28.88	41.34	64.40	200.17
50.0	961.33	.65	28.88	41.34	64.40	200.17
55.0	961.33	.65	28.88	41.34	64.40	200.17
60.0	961.33	.65	28.88	41.34	64.40	200.17
65.0	961.33	.65	28.88	41.34	64.40	200.17
70.0	961.33	.85	28.88	43.22	88.97	213.16
75.0	961.33	.85	28.88	43.22	88.97	213.16
80.0	961.33	.85	28.88	43.22	88.97	213.16
85.0	961.33	.85	28.88	43.22	88.97	213.16
90.0	961.33	.89	26.19	38.24	80.55	213.86
95.0	961.33	.89	26.19	38.24	80.55	213.86
100.0	961.33	.89	26.19	38.24	80.55	213.86
105.0	961.33	.89	26.19	38.24	80.55	213.86
110.0	961.33	.89	37.86	56.53	102.21	285.76
115.0	961.33	.89	37.86	56.53	102.21	284.32
120.0	961.33	.89	37.86	56.53	102.21	284.90
125.0	961.33	.89	37.86	56.53	102.21	285.73
130.0	961.33	.89	37.86	56.53	102.21	287.00
135.0	961.33	.89	37.86	56.53	102.21	288.80
140.0	961.33	.89	37.86	56.53	102.21	288.80
145.0	961.33	.89	37.86	56.53	102.21	288.80
150.0	961.33	.89	37.86	56.53	102.21	288.80
155.0	961.33	.89	37.86	56.53	102.21	288.80
160.0	961.33	.89	37.86	56.53	102.21	288.80
165.0	961.33	.89	37.86	56.53	102.21	288.80
170.0	961.33	.89	37.86	56.53	101.70	281.13
175.0	961.33	.89	37.86	56.53	93.10	263.16
180.0	961.33	.89	37.86	56.43	90.35	253.22
185.0	961.33	.89	37.86	55.05	88.97	245.75
190.0	961.33	.89	37.86	54.00	87.92	244.70
195.0	961.33	.89	37.86	53.19	87.10	243.89
200.0	961.33	.89	37.86	52.77	86.69	243.47
205.0	961.33	.89	37.86	52.48	86.40	243.18
210.0	961.33	.89	37.86	52.32	86.23	243.02

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

215.0	961.33	.89	37.86	52.38	86.30	243.08
220.0	961.33	.89	37.86	52.64	86.56	243.34
225.0	961.33	.89	37.86	52.99	86.91	243.70
230.0	961.33	.89	37.86	53.47	87.39	244.17
235.0	961.33	.89	37.86	54.10	88.01	244.80
240.0	961.33	.89	37.86	54.99	88.91	245.69
245.0	961.33	.89	37.86	56.31	90.23	247.02
250.0	961.33	.89	37.86	56.53	91.90	255.73
255.0	961.33	.89	37.86	56.53	94.04	266.01
260.0	961.33	.89	37.86	56.53	96.97	276.30
265.0	961.33	.89	37.86	56.53	100.46	286.35
270.0	961.33	.65	21.72	25.31	42.60	194.38
275.0	961.33	.65	21.72	25.31	42.60	201.18
280.0	961.33	.65	21.72	25.31	42.60	196.33
285.0	961.33	.65	21.72	25.31	42.60	196.33
290.0	961.33	.91	17.70	22.19	41.01	198.92
295.0	961.33	.91	17.70	22.19	41.01	198.92
300.0	961.33	.91	17.70	22.19	41.01	198.92
305.0	961.33	.91	17.70	22.19	41.01	198.92
310.0	961.33	.89	17.70	27.11	39.58	210.77
315.0	961.33	.89	17.70	27.11	39.58	210.77
320.0	961.33	.89	17.70	27.11	39.58	210.77
325.0	961.33	.89	17.70	27.11	39.58	210.77
330.0	961.33	.89	37.86	56.53	102.21	288.80
335.0	961.33	.89	37.86	56.53	102.21	288.80
340.0	961.33	.89	37.86	56.53	102.21	288.80
345.0	961.33	.89	37.86	56.53	102.21	288.80
350.0	961.33	.89	37.86	56.53	102.21	288.80
355.0	961.33	.47	17.70	27.11	41.79	208.62

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KMOA - KENSETT, ARKANSAS (PROPOSED 1.9 KW "CRITICAL HOURS" OPERATION)

Call letters: KMOA Metric groundwave propagation curves

SEE FIGURE 1 - PAGES 1 THRU 4 FOR CONDUCTIVITIES EMPLOYED

Coordinates: N 35 15 34 W 91 40 31

Frequency: 1190 kHz Number of contours: 5

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :				
		1000.000	5.000	2.000	.500	.025
.0	419.04	.25	9.03	18.42	34.82	145.50
5.0	419.04	.25	9.03	18.42	34.82	145.50
10.0	419.04	.25	9.03	18.42	34.82	145.50
15.0	419.04	.25	9.03	18.42	34.82	145.50
20.0	419.04	.30	9.03	18.16	32.06	157.15
25.0	419.04	.30	9.03	18.16	32.06	157.15
30.0	419.04	.30	9.03	18.16	32.06	157.15
35.0	419.04	.30	9.03	18.16	32.06	157.15
40.0	419.04	.40	25.45	39.36	71.78	225.68
45.0	419.04	.32	19.66	30.01	49.11	137.05
50.0	419.04	.32	19.66	30.01	49.11	137.05
55.0	419.04	.32	19.66	30.01	49.11	137.05
60.0	419.04	.32	19.66	30.01	49.11	137.05
65.0	419.04	.32	19.66	30.01	49.11	137.05
70.0	419.04	.39	19.66	30.01	71.51	150.04
75.0	419.04	.39	19.66	30.01	71.51	150.04
80.0	419.04	.39	19.66	30.01	71.51	150.04
85.0	419.04	.39	19.66	30.01	71.51	150.04
90.0	419.04	.40	22.98	26.97	49.11	150.73
95.0	419.04	.40	22.98	26.97	49.11	150.73
100.0	419.04	.40	22.98	26.97	49.11	150.73
105.0	419.04	.40	22.98	26.97	49.11	150.73
110.0	419.04	.40	25.45	39.36	71.78	225.68
115.0	419.04	.40	25.45	39.36	71.78	225.68
120.0	419.04	.40	25.45	39.36	71.78	225.68
125.0	419.04	.40	25.45	39.36	71.78	225.68
130.0	419.04	.40	25.45	39.36	71.78	225.68
135.0	419.04	.40	25.45	39.36	71.78	225.68
140.0	419.04	.40	25.45	39.36	71.78	225.68
145.0	419.04	.40	25.45	39.36	71.78	225.68
150.0	419.04	.40	25.45	39.36	71.78	225.68
155.0	419.04	.40	25.45	39.36	71.78	225.68
160.0	419.04	.40	25.45	39.36	71.78	225.68
165.0	419.04	.40	25.45	39.36	71.78	225.68
170.0	419.04	.40	25.45	39.36	71.78	218.01
175.0	419.04	.40	25.45	39.36	70.06	200.04
180.0	419.04	.40	25.45	39.36	67.31	191.55
185.0	419.04	.40	25.45	39.36	65.93	190.16
190.0	419.04	.40	25.45	39.36	64.88	189.12
195.0	419.04	.40	25.45	39.36	64.06	188.30
200.0	419.04	.40	25.45	39.36	63.64	187.88

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

205.0	419.04	.40	25.45	39.36	63.35	187.59
210.0	419.04	.40	25.45	39.36	63.19	187.43
215.0	419.04	.40	25.45	39.36	63.26	187.50
220.0	419.04	.40	25.45	39.36	63.52	187.75
225.0	419.04	.40	25.45	39.36	63.87	188.11
230.0	419.04	.40	25.45	39.36	64.35	188.59
235.0	419.04	.40	25.45	39.36	64.97	189.21
240.0	419.04	.40	25.45	39.36	65.86	190.10
245.0	419.04	.40	25.45	39.36	67.19	191.43
250.0	419.04	.40	25.45	39.36	68.86	193.10
255.0	419.04	.40	25.45	39.36	71.00	195.24
260.0	419.04	.40	25.45	39.36	71.78	205.40
265.0	419.04	.40	25.45	39.36	71.78	215.45
270.0	419.04	.32	14.79	22.39	31.50	130.89
275.0	419.04	.32	14.79	22.39	31.50	133.21
280.0	419.04	.32	14.79	22.39	31.50	133.21
285.0	419.04	.32	14.79	22.39	31.50	133.21
290.0	419.04	.41	11.98	18.42	27.68	135.80
295.0	419.04	.41	11.98	18.42	27.68	135.80
300.0	419.04	.41	11.98	18.42	27.68	135.80
305.0	419.04	.41	11.98	18.42	27.68	135.80
310.0	419.04	.40	11.98	18.42	31.83	147.65
315.0	419.04	.40	11.98	18.42	31.83	147.65
320.0	419.04	.40	11.98	18.42	31.83	147.65
325.0	419.04	.40	11.98	18.42	31.83	147.65
330.0	419.04	.40	25.45	39.36	71.78	225.68
335.0	419.04	.40	25.45	39.36	71.78	225.68
340.0	419.04	.40	25.45	39.36	71.78	225.68
345.0	419.04	.40	25.45	39.36	71.78	225.68
350.0	419.04	.40	25.45	39.36	71.78	225.68
355.0	419.04	.25	9.03	18.42	34.82	145.50

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KMOA - KENSETT, ARKANSAS (PRESENT 0.5 KW DAYTIME OPERATION)

Call letters: KMOA Metric groundwave propagation curves

SEE FIGURE 1 - PAGES 1 THRU 4 FOR CONDUCTIVITIES EMPLOYED

Coordinates: N 35 15 34 W 91 40 31

Frequency: 1190 kHz Number of contours: 4

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :			
		1000.000	5.000	2.000	.500
.0	214.96	.14	6.45	10.21	25.73
5.0	214.96	.14	6.45	10.21	25.73
10.0	214.96	.14	6.45	10.21	25.73
15.0	214.96	.14	6.45	10.21	25.73
20.0	214.96	.17	6.45	10.21	25.73
25.0	214.96	.17	6.45	10.21	25.73
30.0	214.96	.17	6.45	10.21	25.73
35.0	214.96	.17	6.45	10.21	25.73
40.0	214.96	.21	17.75	28.81	53.89
45.0	214.96	.18	14.00	22.14	40.79
50.0	214.96	.18	14.00	22.14	40.79
55.0	214.96	.18	14.00	22.14	40.79
60.0	214.96	.18	14.00	22.14	40.79
65.0	214.96	.18	14.00	22.14	40.79
70.0	214.96	.20	14.00	22.14	41.16
75.0	214.96	.20	14.00	22.14	41.16
80.0	214.96	.20	14.00	22.14	41.16
85.0	214.96	.20	14.00	22.14	41.16
90.0	214.96	.21	17.75	23.42	36.38
95.0	214.96	.21	17.75	23.42	36.38
100.0	214.96	.21	17.75	23.42	36.38
105.0	214.96	.21	17.75	23.42	36.38
110.0	214.96	.21	17.75	28.81	53.89
115.0	214.96	.21	17.75	28.81	53.89
120.0	214.96	.21	17.75	28.81	53.89
125.0	214.96	.21	17.75	28.81	53.89
130.0	214.96	.21	17.75	28.81	53.89
135.0	214.96	.21	17.75	28.81	53.89
140.0	214.96	.21	17.75	28.81	53.89
145.0	214.96	.21	17.75	28.81	53.89
150.0	214.96	.21	17.75	28.81	53.89
155.0	214.96	.21	17.75	28.81	53.89
160.0	214.96	.21	17.75	28.81	53.89
165.0	214.96	.21	17.75	28.81	53.89
170.0	214.96	.21	17.75	28.81	53.89
175.0	214.96	.21	17.75	28.81	53.89
180.0	214.96	.21	17.75	28.81	53.89
185.0	214.96	.21	17.75	28.81	53.19
190.0	214.96	.21	17.75	28.81	52.15
195.0	214.96	.21	17.75	28.81	51.33
200.0	214.96	.21	17.75	28.81	50.91

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

205.0	214.96	.21	17.75	28.81	50.62
210.0	214.96	.21	17.75	28.81	50.46
215.0	214.96	.21	17.75	28.81	50.53
220.0	214.96	.21	17.75	28.81	50.79
225.0	214.96	.21	17.75	28.81	51.14
230.0	214.96	.21	17.75	28.81	51.62
235.0	214.96	.21	17.75	28.81	52.24
240.0	214.96	.21	17.75	28.81	53.13
245.0	214.96	.21	17.75	28.81	53.89
250.0	214.96	.21	17.75	28.81	53.89
255.0	214.96	.21	17.75	28.81	53.89
260.0	214.96	.21	17.75	28.81	53.89
265.0	214.96	.21	17.75	28.81	53.89
270.0	214.96	.18	10.66	16.63	24.63
275.0	214.96	.18	10.66	16.63	24.63
280.0	214.96	.18	10.66	16.63	24.63
285.0	214.96	.18	10.66	16.63	24.63
290.0	214.96	.21	8.63	13.48	21.70
295.0	214.96	.21	8.63	13.48	21.70
300.0	214.96	.21	8.63	13.48	21.70
305.0	214.96	.21	8.63	13.48	21.70
310.0	214.96	.21	8.63	13.48	25.73
315.0	214.96	.21	8.63	13.48	25.73
320.0	214.96	.21	8.63	13.48	25.73
325.0	214.96	.21	8.63	13.48	25.73
330.0	214.96	.21	17.75	28.81	53.89
335.0	214.96	.21	17.75	28.81	53.89
340.0	214.96	.21	17.75	28.81	53.89
345.0	214.96	.21	17.75	28.81	53.89
350.0	214.96	.21	17.75	28.81	53.89
355.0	214.96	.14	6.45	10.21	25.73

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KJEM - BENTONVILLE, ARKANSAS (2.5 KW, NON-DIRECTIONAL)

Call letters: KJEM

Coordinates: N 36 23 17 W 94 11 42

Frequency: 1190 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.						
40.0	455.50	8.0E	400.0					
45.0	455.50	8.0E	400.0					
50.0	455.50	8.0E	381.0	15.0E	400.0			
55.0	455.50	8.0E	376.6	15.0E	400.0			
60.0	455.50	8.0E	387.9	15.0E	400.0			
65.0	455.50	2.0M	24.1	1.0M	58.1	8.0E	400.0	} measured
70.0	455.50	2.0M	24.1	1.0M	58.1	8.0E	400.0	
75.0	455.50	2.0M	24.1	1.0M	58.1	8.0E	400.0	
80.0	455.50	2.0M	24.1	1.0M	58.1	8.0E	400.0	
85.0	455.50	2.0M	24.1	1.0M	58.1	8.0E	400.0	
90.0	455.50	1.5M	57.6	8.0E	400.0			
95.0	455.50	1.5M	57.6	8.0E	400.0			
100.0	455.50	1.5M	57.6	8.0E	400.0			
105.0	455.50	1.5M	57.6	8.0E	400.0			
110.0	455.50	1.0M	64.7	8.0E	400.0			
115.0	455.50	1.0M	64.7	8.0E	400.0			
120.0	455.50	1.0M	64.7	8.0E	400.0			
125.0	455.50	1.0M	64.7	8.0E	400.0			
130.0	455.50	1.5M	32.2	4.0M	56.3	2.0M	72.1	8.0E 226.6
		4.0E	318.1	8.0E	400.0			
135.0	455.50	1.5M	32.2	4.0M	56.3	2.0M	72.1	8.0E 186.9
		4.0E	359.9	8.0E	400.0			
140.0	455.50	1.5M	32.2	4.0M	56.3	2.0M	72.1	8.0E 160.1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

		4.0E	380.1	8.0E	400.0					
145.0	455.50	1.5M 4.0E	32.2 403.0	4.0M 4.0E	56.3 400.0	2.0M	72.1	8.0E	141.0	
150.0	455.50	4.0M 4.0E	51.5 400.0	1.0M 15.0E	81.1 400.0	8.0E	124.6	15.0E	145.8	
155.0	455.50	4.0M 4.0E	51.5 400.0	1.0M 15.0E	81.1 400.0	8.0E	114.4	15.0E	154.4	
160.0	455.50	4.0M 4.0E	51.5 400.0	1.0M 15.0E	81.1 400.0	8.0E	109.0	15.0E	164.7	
165.0	455.50	4.0M 4.0E	51.5 381.6	1.0M 15.0E	81.1 400.0	8.0E	105.5	15.0E	176.7	
170.0	455.50	8.0E	103.5	15.0E	191.9	4.0E	377.8	15.0E	400.0	
175.0	455.50	8.0E 15.0E	103.4 400.0	15.0E	210.1	4.0E	358.6	8.0E	394.5	
180.0	455.50	8.0E	106.1	15.0E	241.1	4.0E	349.5	8.0E	400.0	
185.0	455.50	8.0E	109.7	15.0E	256.5	4.0E	346.3	8.0E	400.0	
190.0	455.50	8.0E	114.3	15.0E	256.8	4.0E	349.9	8.0E	400.0	
195.0	455.50	8.0E	119.4	15.0E	259.0	4.0E	359.5	8.0E	400.0	
200.0	455.50	8.0E	123.6	15.0E	284.1	30.0E	417.7			
205.0	455.50	8.0E	125.9	15.0E	310.6	30.0E	400.0			
210.0	455.50	8.0E	126.7	15.0E	342.3	30.0E	400.0			
215.0	455.50	8.0E	127.1	15.0E	370.3	30.0E	400.0			
220.0	455.50	8.0E	125.6	15.0E	379.7	30.0E	400.0			

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KJEM - BENTONVILLE, ARKANSAS (2.5 KW, NON-DIRECTIONAL)

Call letters: KJEM Metric groundwave propagation curves

Coordinates: N 36 23 17 W 94 11 42

Frequency: 1190 kHz Number of contours: 3

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :		
		.500	.050	.025
40.0	455.50	74.42	184.15	231.70
45.0	455.50	74.42	184.15	231.70
50.0	455.50	74.42	184.15	231.70
55.0	455.50	74.42	184.15	231.70
60.0	455.50	74.42	184.15	231.70
65.0	455.50	29.12	108.44	155.99
70.0	455.50	29.12	108.44	155.99
75.0	455.50	29.12	108.44	155.99
80.0	455.50	29.12	108.44	155.99
85.0	455.50	29.12	108.44	155.99
90.0	455.50	32.70	120.85	168.40
95.0	455.50	32.70	120.85	168.40
100.0	455.50	32.70	120.85	168.40
105.0	455.50	32.70	120.85	168.40
110.0	455.50	28.83	103.51	151.07
115.0	455.50	28.83	103.51	151.07
120.0	455.50	28.83	103.51	151.07
125.0	455.50	28.83	103.51	151.07
130.0	455.50	33.51	123.66	171.21
135.0	455.50	33.51	123.66	171.21
140.0	455.50	33.51	123.66	169.71
145.0	455.50	33.51	123.66	166.85
150.0	455.50	51.02	92.73	142.57
155.0	455.50	51.02	92.73	144.17
160.0	455.50	51.02	92.73	145.03
165.0	455.50	51.02	92.73	145.59
170.0	455.50	74.42	199.30	239.67
175.0	455.50	74.42	202.46	245.07
180.0	455.50	74.42	201.70	252.88
185.0	455.50	74.42	200.68	255.76
190.0	455.50	74.42	199.45	254.53
195.0	455.50	74.42	198.08	253.17
200.0	455.50	74.42	197.03	252.11
205.0	455.50	74.42	196.44	251.53
210.0	455.50	74.42	196.23	251.32
215.0	455.50	74.42	196.12	251.21
220.0	455.50	74.42	196.52	251.61

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KHAD - DESOTO, MISSOURI (5 KW, DA-D)

Call letters: KHAD

Coordinates: N 38 8 22 W 90 32 32

Frequency: 1190 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in $\mu\text{S}/\text{m}$ followed by distance in km to the end of region. E - map data; M - measurement data.								
98.0	213.14	8.0E	7.9	15.0E	53.4	8.0E	338.4	4.0E	400.0	
103.0	260.28	8.0E	9.0	15.0E	48.9	8.0E	330.2	4.0E	400.0	
108.0	310.69	8.0E	11.5	15.0E	44.2	8.0E	322.4	4.0E	400.0	
113.0	363.61	8.0E	16.3	15.0E	39.0	8.0E	312.8	4.0E	400.0	
118.0	418.27	8.0E	28.1	15.0E	30.7	8.0E	301.9	4.0E	400.0	
123.0	473.93	8.0E	289.2	4.0E	400.0					
128.0	529.84	8.0E	177.9	4.0E	235.5	8.0E	256.7	4.0E	400.0	
133.0	585.28	8.0E	178.2	4.0E	400.0					
138.0	639.57	8.0E	186.4	4.0E	400.0					
143.0	692.05	8.0E	198.8	4.0E	400.0					
148.0	742.17	8.0E	217.1	4.0E	400.0					
153.0	789.42	8.0E	243.0	4.0E	400.0					
158.0	833.41	8.0E	296.7	4.0E	400.0					
163.0	873.84	8.0E	400.0							
168.0	910.52	15.0M	20.0	10.0M	30.0	8.0M	50.0	5.0M	60.0	
		2.0M	61.6	8.0E	400.0					
173.0	943.36	15.0M	20.0	10.0M	30.0	8.0M	50.0	5.0M	60.0	
		2.0M	61.6	8.0E	400.0					
178.0	972.35	15.0M	20.0	10.0M	30.0	8.0M	50.0	5.0M	60.0	
		2.0M	61.6	8.0E	400.0					
183.0	997.60	15.0M	20.0	10.0M	30.0	8.0M	50.0	5.0M	60.0	
		2.0M	61.6	8.0E	400.0					
188.0	1019.27	15.0M	20.0	10.0M	30.0	8.0M	50.0	5.0M	60.0	
		2.0M	61.6	8.0E	400.0					

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

193.0	1037.56	5.0M	9.0	15.0M	20.0	10.0M	30.0	7.0M	40.0
		5.0M	73.3	8.0E	409.0	4.0E	400.0		
198.0	1052.73	5.0M	9.0	15.0M	20.0	10.0M	30.0	7.0M	40.0
		5.0M	73.3	8.0E	380.2	4.0E	400.0		
203.0	1065.05	5.0M	9.0	15.0M	20.0	10.0M	30.0	7.0M	40.0
		5.0M	73.3	8.0E	374.8	4.0E	400.0		
208.0	1074.80	5.0M	9.0	15.0M	20.0	10.0M	30.0	7.0M	40.0
		5.0M	73.3	8.0E	377.8	4.0E	400.0		
213.0	1082.22	20.0M	30.0	8.0M	35.0	5.0M	50.0	6.0M	70.0
		4.0M	80.9	8.0E	383.9	4.0E	400.0		
218.0	1087.53	20.0M	30.0	8.0M	35.0	5.0M	50.0	6.0M	70.0
		4.0M	80.9	8.0E	393.1	4.0E	400.0		
223.0	1090.92	20.0M	30.0	8.0M	35.0	5.0M	50.0	6.0M	70.0
		4.0M	80.9	8.0E	400.0				
228.0	1092.50	20.0M	30.0	8.0M	35.0	5.0M	50.0	6.0M	70.0
		4.0M	80.9	8.0E	400.0				
233.0	1092.32	8.0E	400.0						
238.0	1090.39	8.0E	400.0						
243.0	1086.63	8.0E	400.0						
248.0	1080.91	8.0E	400.0						
253.0	1073.04	8.0E	380.7	15.0E	400.0				
258.0	1062.80	8.0E	313.3	15.0E	400.0				
263.0	1049.93	8.0E	289.5	15.0E	400.0				
268.0	1034.16	8.0E	268.8	15.0E	400.0				
273.0	1015.21	8.0E	243.3	15.0E	400.0				
278.0	992.85	8.0E	222.9	15.0E	400.0				

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KHAD - DESOTO, MISSOURI (5 KW, DA-D)

Call letters: KHAD Metric groundwave propagation curves

Coordinates: N 38 8 22 W 90 32 32

Frequency: 1190 kHz Number of contours: 3

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :		
		.500	.050	.025
98.0	213.14	68.52	154.51	194.78
103.0	260.28	71.54	163.60	205.92
108.0	310.69	73.92	171.51	215.54
113.0	363.61	75.17	177.74	223.24
118.0	418.27	72.62	179.67	226.44
123.0	473.93	75.72	186.70	234.62
128.0	529.84	79.53	191.32	233.09
133.0	585.28	83.05	196.95	239.68
138.0	639.57	86.28	203.45	246.95
143.0	692.05	89.14	210.08	254.34
148.0	742.17	91.68	217.02	261.85
153.0	789.42	94.02	221.43	269.64
158.0	833.41	96.25	225.28	277.58
163.0	873.84	98.23	228.68	281.25
168.0	910.52	44.68	176.35	229.17
173.0	943.36	46.13	178.96	231.98
178.0	972.35	47.38	181.21	234.41
183.0	997.60	48.45	183.08	236.48
188.0	1019.27	49.36	184.64	238.22
193.0	1037.56	85.23	221.06	274.80
198.0	1052.73	85.86	222.13	275.99
203.0	1065.05	86.36	222.99	276.92
208.0	1074.80	86.75	223.66	277.64
213.0	1082.22	78.14	212.17	266.19
218.0	1087.53	78.25	212.54	266.57
223.0	1090.92	78.32	212.77	266.82
228.0	1092.50	78.35	212.87	266.94
233.0	1092.32	107.64	245.05	299.11
238.0	1090.39	107.56	244.92	298.97
243.0	1086.63	107.41	244.66	298.69
248.0	1080.91	107.18	244.27	298.27
253.0	1073.04	106.87	243.73	297.70
258.0	1062.80	106.45	243.02	296.94
263.0	1049.93	105.93	242.12	296.50
268.0	1034.16	105.28	241.01	297.42
273.0	1015.21	104.50	239.66	298.97
278.0	992.85	103.56	240.15	299.98

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

WHMT - HUMBOLDT, TENNESSEE (0.5 KW, NON-DIRECTITONAL)

Call letters: WHMT

Coordinates: N 35 50 41 W 88 54 8

Frequency: 1190 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
180.0	216.22	4.0E	170.1	2.0E	395.2	4.0E	411.5	2.0E	500.0
185.0	216.22	4.0E	125.3	8.0E	194.1	2.0E	375.5	4.0E	537.8
190.0	216.22	4.0E	99.9	8.0E	257.7	2.0E	379.4	4.0E	500.0
195.0	216.22	4.0E	85.9	8.0E	395.5	4.0E	500.0		
200.0	216.22	4.0E	75.9	8.0E	500.0				
205.0	216.22	4.0E	68.4	8.0E	500.0				
210.0	216.22	4.0E	62.7	8.0E	500.0				
215.0	216.22	4.0E	58.2	8.0E	500.0				
220.0	216.22	4.0E	53.4	8.0E	465.2	4.0E	500.0		
225.0	216.22	4.0E	49.7	8.0E	359.0	4.0E	500.0		
230.0	216.22	4.0E	46.8	8.0E	303.7	4.0E	500.0		
235.0	216.22	4.0E	44.4	8.0E	287.9	4.0E	500.0		
240.0	216.22	4.0E	42.6	8.0E	279.8	4.0E	500.0		
245.0	216.22	4.0E	41.2	8.0E	279.1	4.0E	500.0		
250.0	216.22	4.0E	40.2	8.0E	290.0	4.0E	524.4		
255.0	216.22	4.0E	39.5	8.0E	317.4	4.0E	469.3	15.0E	500.0
260.0	216.22	4.0E	39.1	8.0E	362.0	4.0E	424.2	15.0E	500.0
265.0	216.22	4.0E	39.1	8.0E	421.0	15.0E	500.0		
270.0	216.22	4.0E	39.3	8.0E	500.0				
275.0	216.22	4.0E	39.4	8.0E	500.0				
280.0	216.22	4.0E	39.6	8.0E	500.0				
285.0	216.22	4.0E	40.1	8.0E	500.0				

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

290.0	216.22	4.0E	40.9	8.0E	500.0				
295.0	216.22	4.0E	42.1	8.0E	489.6	15.0E	500.0		
300.0	216.22	4.0E	43.8	8.0E	484.0	15.0E	500.0		
305.0	216.22	4.0E	45.9	8.0E	473.5	15.0E	500.0		
310.0	216.22	4.0E	48.6	8.0E	463.2	15.0E	500.0		
315.0	216.22	4.0E	52.1	8.0E	456.8	15.0E	500.0		
320.0	216.22	4.0E	56.2	8.0E	456.4	15.0E	500.0		
325.0	216.22	4.0E	60.9	8.0E	465.7	15.0E	500.0		
330.0	216.22	4.0E	67.1	8.0E	490.5	15.0E	500.0		
335.0	216.22	4.0E	75.3	8.0E	265.6	15.0E	378.4	8.0E	495.2
			15.0E	500.0					
340.0	216.22	4.0E	86.4	8.0E	264.0	15.0E	410.4	8.0E	500.9
345.0	216.22	4.0E	100.5	8.0E	277.7	15.0E	449.0	8.0E	500.0
350.0	216.22	4.0E	118.8	8.0E	295.6	15.0E	493.8	8.0E	500.0
355.0	216.22	4.0E	138.0	8.0E	320.4	15.0E	500.0		
360.0	216.22	4.0E	146.2	8.0E	363.0	15.0E	500.0		

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

WHMT - HUMBOLDT, TENNESSEE (0.5 KW, NON-DIRECTIONAL)

Call letters: WHMT Metric groundwave propagation curves

Coordinates: N 35 50 41 W 88 54 8

Frequency: 1190 kHz Number of contours: 2

Azimuth	(mV/m at one km)	Radiation Distances to Contours in Kilometers :	
		.500	.025
180.0	216.22	36.48	135.48
185.0	216.22	36.48	137.66
190.0	216.22	36.48	143.75
195.0	216.22	36.48	147.35
200.0	216.22	36.48	149.93
205.0	216.22	36.48	151.79
210.0	216.22	36.48	153.38
215.0	216.22	36.48	154.72
220.0	216.22	36.48	156.51
225.0	216.22	36.48	157.96
230.0	216.22	36.48	159.09
235.0	216.22	36.48	160.04
240.0	216.22	36.48	160.76
245.0	216.22	36.48	161.33
250.0	216.22	36.48	161.74
255.0	216.22	36.48	162.03
260.0	216.22	36.48	162.20
265.0	216.22	36.48	162.20
270.0	216.22	36.48	162.12
275.0	216.22	36.48	162.07
280.0	216.22	36.48	161.99
285.0	216.22	36.48	161.78
290.0	216.22	36.48	161.46
295.0	216.22	36.48	160.96
300.0	216.22	36.48	160.28
305.0	216.22	36.48	159.44
310.0	216.22	36.48	158.39
315.0	216.22	36.48	157.03
320.0	216.22	36.48	155.42
325.0	216.22	36.48	153.82
330.0	216.22	36.48	152.20
335.0	216.22	36.48	150.10
340.0	216.22	36.48	147.22
345.0	216.22	36.48	143.60
350.0	216.22	36.48	139.14
355.0	216.22	36.48	135.48
360.0	216.22	36.48	135.48